

1. (amended) An endovascular support device for implantation in a vessel within the human body comprising:

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at least one compressible stent means mounted on a balloon of a balloon catheter; and  
wherein said at least one compressible stent means is encapsulated by [a] said balloon of  
[a] said balloon catheter, [for implantation in a vessel within the human body.]

claim 4, line 2 (page 12, line 9) delete "unitary wire-like".

claim 7, line 2 (page 12, line 17) delete "wire-like".

12. (amended) A method for treating narrowing of vessels within humans comprising the steps of:

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providing at least one [encapsulated] endovascular support device; [on a balloon catheter;]  
mounting the at least one endovascular support device on a balloon of a balloon catheter;  
anchoring the at least one endovascular support device to the balloon by encapsulation;  
advancing the balloon catheter and the at least one encapsulated endovascular support  
device to an area to be treated within the vessels;

inflating the balloon of the balloon catheter to expand the at least one encapsulated  
endovascular support device within the area to be treated; and

deflating the balloon of the balloon catheter so that the balloon pulls away from the at least  
one endovascular support device.

Add the following new claims:

4 16. The endovascular support device of Claim 3 wherein the balloon-forms the at least one retainer means.

7 17. A delivery system for an endovascular support device comprising:  
a balloon catheter having a catheter body and a balloon;  
means for selectively inflating and deflating said balloon;  
at least one endovascular support device mounted on said balloon, said at least one endovascular support device having a first diameter for intraluminal delivery and a second expanded diameter for deployment in a vessel;

93 wherein said balloon at least partially surrounds at least a portion of said at least one endovascular support device thereby securing said at least one endovascular support device to said balloon for intraluminal delivery.

8 18. The delivery system according to Claim 17 wherein the at least one endovascular support device is retained in indentations formed in said balloon.

9 19. The delivery system according to Claim 17 wherein the balloon adheres to the at least one endovascular support device.

0 20. The delivery system according to Claim 17 further comprising at least one retainer means

for facilitating delivery of said at least one endovascular support device to a predetermined location within a vessel.

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21. The delivery system according to Claim 20 wherein the balloon forms the at least one retainer means.

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22. The delivery system according to Claim 17 wherein the at least one endovascular support means comprises at least one expandable member in the form of a plurality of substantially straight segments connected by axial bends.

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23. The delivery system according to Claim 22 wherein said at least one expandable member is mounted onto said balloon to have an interior diameter  $D_i$  and wherein portions of said balloon protrude through said substantially straight segments to have a diameter greater than  $D_i$ .

24. A stent delivery system comprising:

a balloon catheter having a catheter body, a balloon positioned upon said catheter body and a portion defining an inflation lumen for selectively inflating and deflating said balloon;

a stent having a generally tubular shape and a first diameter for intraluminal delivery, said stent being expandable to a second diameter for deployment in a vessel;

wherein said stent is mounted on said balloon of said balloon catheter for implantation in a vessel within the human body, said stent retained in indentations formed in said balloon, said

balloon at least partially conforming to the generally tubular shape of said stent.

25. The stent delivery system according to Claim 24 wherein the balloon adheres to the stent.

26. The stent delivery system according to Claim 24 wherein said stent is crimped onto said balloon to have an interior diameter  $D_i$  and wherein portions of said balloon protrude to have a diameter greater than  $D_i$ .

27. The stent delivery system according to Claim 24 further comprising at least one retainer means for facilitating delivery of said stent for implantation.

28. The stent delivery system according to Claim 27 wherein the balloon forms the at least one retainer means.

29. The stent delivery system according to Claim 24 wherein the stent comprises at least one member in the form of a plurality of substantially straight sections connected at axial bends.

30. The stent delivery system according to Claim 29 wherein the stent comprises at least two connected members each having a plurality of substantially straight sections connected by axial bends.

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31. The stent delivery system according to Claim 29 wherein the balloon defines a number of wings selected relative to a number of axial bends of the stent.

32. The stent delivery system according to Claim 24 wherein the balloon defines at least three wings surrounding the balloon catheter for substantially symmetrical expansion of the stent.

#### Fee Calculation

The additional fee for filing this amendment is calculated as follows:

<u>FOR</u>	<u>AFTER AMENDMENT</u>	<u>NUMBER</u>	<u>ORIGINALLY PAID</u>	<u>EXTRA</u>		<u>RATE</u>	<u>FEE</u>
TOTAL CLAIMS	32	-	20	= 12	X	\$22	=\$264
IND. CLAIMS	6	-	4	= 2	X	\$80	=\$160
TOTAL							=\$424

Please charge Deposit Account No. 01-2525 in the amount of \$424. A duplicate copy of this sheet is enclosed. If any additional fees are due, the Commissioner is hereby authorized to charge same to Deposit Account No. 01-2525.

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